Session 503

Java Development Tools

Alan Samuel
Java Technology Manager, WWDR

Agenda

- Project Builder
- Optimizeit
- JBuilder
- InstallAnywhere and PowerUpdate
- CodeWarrior

Project Builder

David Ewing
Project Builder Java Debugger Engineer

Project Builder

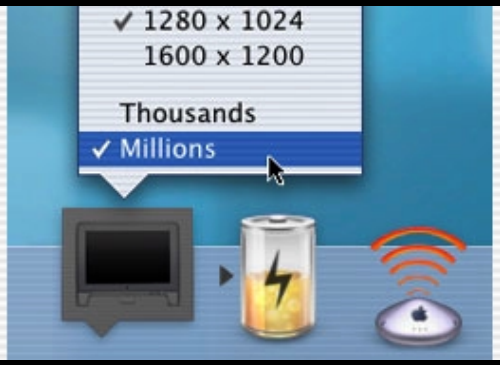
- Apple's IDE for Mac OS X
  - Project-based editing, building, debugging
  - Supports multiple languages
    - Java, C, C++, Objective-C, AppleScript, etc.
  - Supports multiple frameworks
    - Carbon, Cocoa, Java 2, WebObjects, POSIX, IOKit, etc.
  - Supports multiple products
    - Applications, bundles, frameworks, jars, applets, kexts, etc.

Why Use Project Builder for Java?

- Complete Java IDE
- Supports Mac OS X platform initiatives
  - Java applications as bundles
- Cocoa
  - Objective-C and Java together
- Java Native Interface support
  - Develop both native code and Java together

Demo

Project Builder



Optimizeit 4.0

Scott Adler
Apple Computer—for VMGEAR

Optimizeit Overview

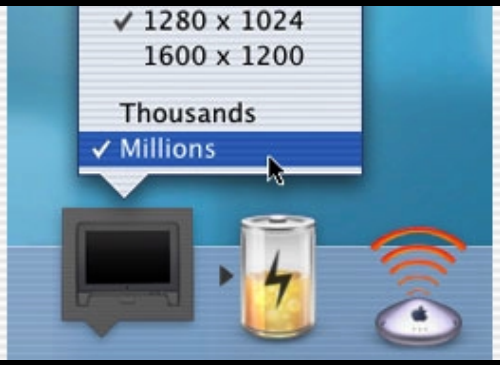
- A powerful Java profiling solution
- You can track down and fix performance issues

Common Java Performance Problems

- Excessive object allocation
  - Cost of garbage collections
    - Garbage collector runs, stops all threads, search through many references
- Memory leaks!
  - Different than native code
  - Adding and removing listeners/observers
- Unsuspected performance bottlenecks

Demo

Optimizeit



Strengths of Optimizeit

- Profile any Java code without recompiling
  - Applications, Applets, Servlets, JSPs, EJBs, WebObjects…
- Easy to configure and easy to use
- Scalability!
  - Sampling or Instrumentation based CPU profiler
  - Lazy data retrieval ensures scalability

Who to Contact

1 (888) 655-0055
info@vmgear.com

JBuilder for Mac OS X

Blake Stone
Chief Scientist
Borland

JBuilder 5 for Mac OS X

- Extreme productivity
  - Rapid coding and visual development
  - Integrated debugging
  - JavaBeans, database, XML, JSP, and more
- Written entirely in Java
  - Tailored specifically for Mac OS X

JBuilder™

The leading Java™ development solution

Feeding the Macintosh Spirit

- A great platform deserves great tools
  - Best-selling Java IDE
  - Winner of numerous industry awards
- Not a port of last year's product
  - JBuilder 5 announced May 15th, 2001

The JBuilder Journey

- The WWDC connection
  - Attended in 1999
  - Tech demo in 2000
  - Preview CDs for 2001
- Support from Apple
  - Mac OS X
    - The foundation
  - Apple's enthusiasm
    - A great partnership
  - Java 2 SDK 1.3.1
    - The missing piece

Demo

JBuilder 5

InstallAnywhere PowerUpdate

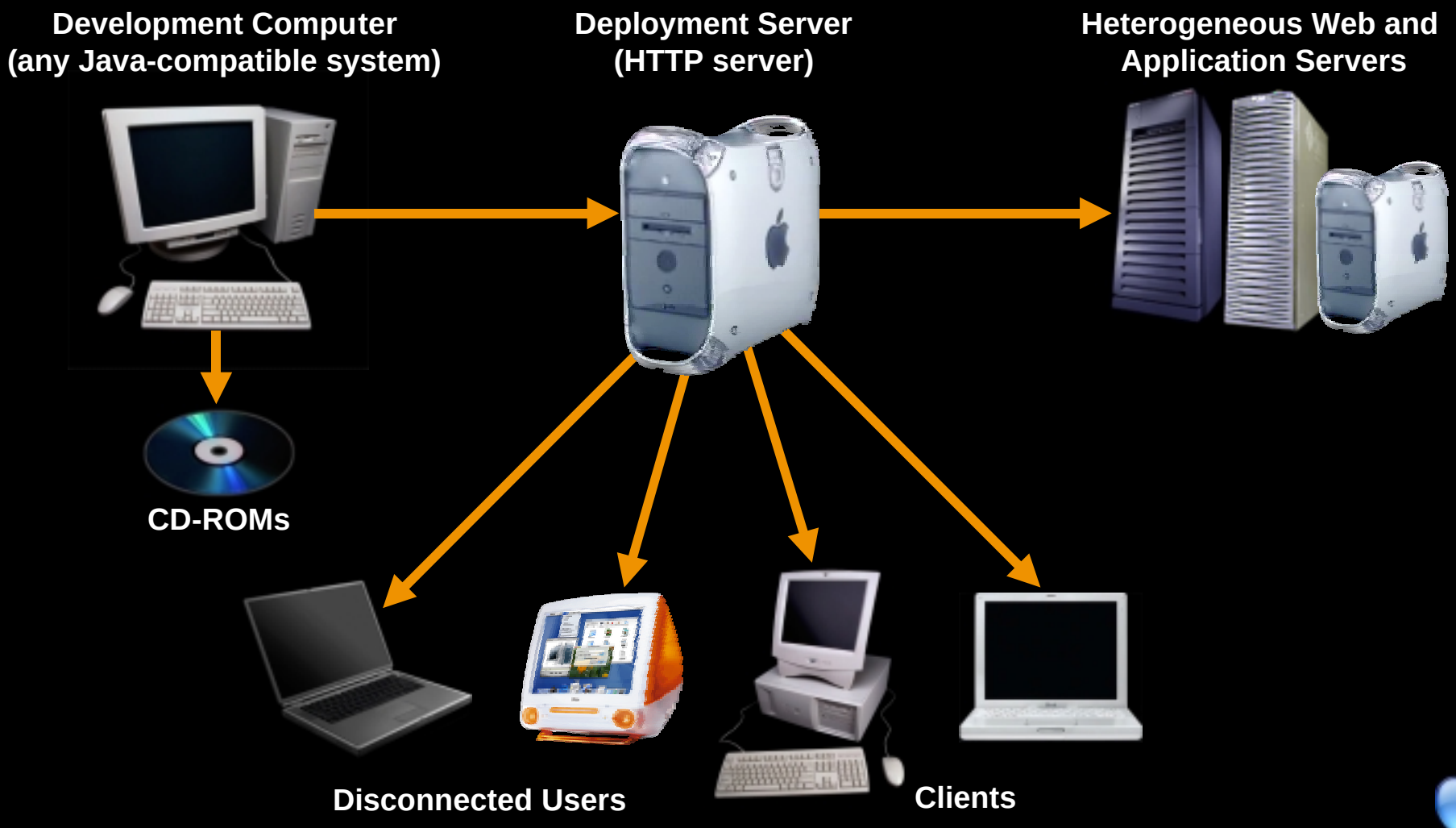
Multiplatform Deployment and Updating From Zero G

M. Michael Acosta and Eric N. Shapiro

InstallAnywhere

- Multiplatform deployment supporting Mac OS since 1997
- Complete platform support, including Mac OS (8–9, X), Windows (95, 98, Me, NT4, and 2000), Solaris, AIX, HP-UX, FreeBSD, and Linux
- Creates LaunchAnywhere™ executables that make it easy for the end-user to launch Java-based applications
- Installs Java and native applications
- Open API
- Localized in 29 languages

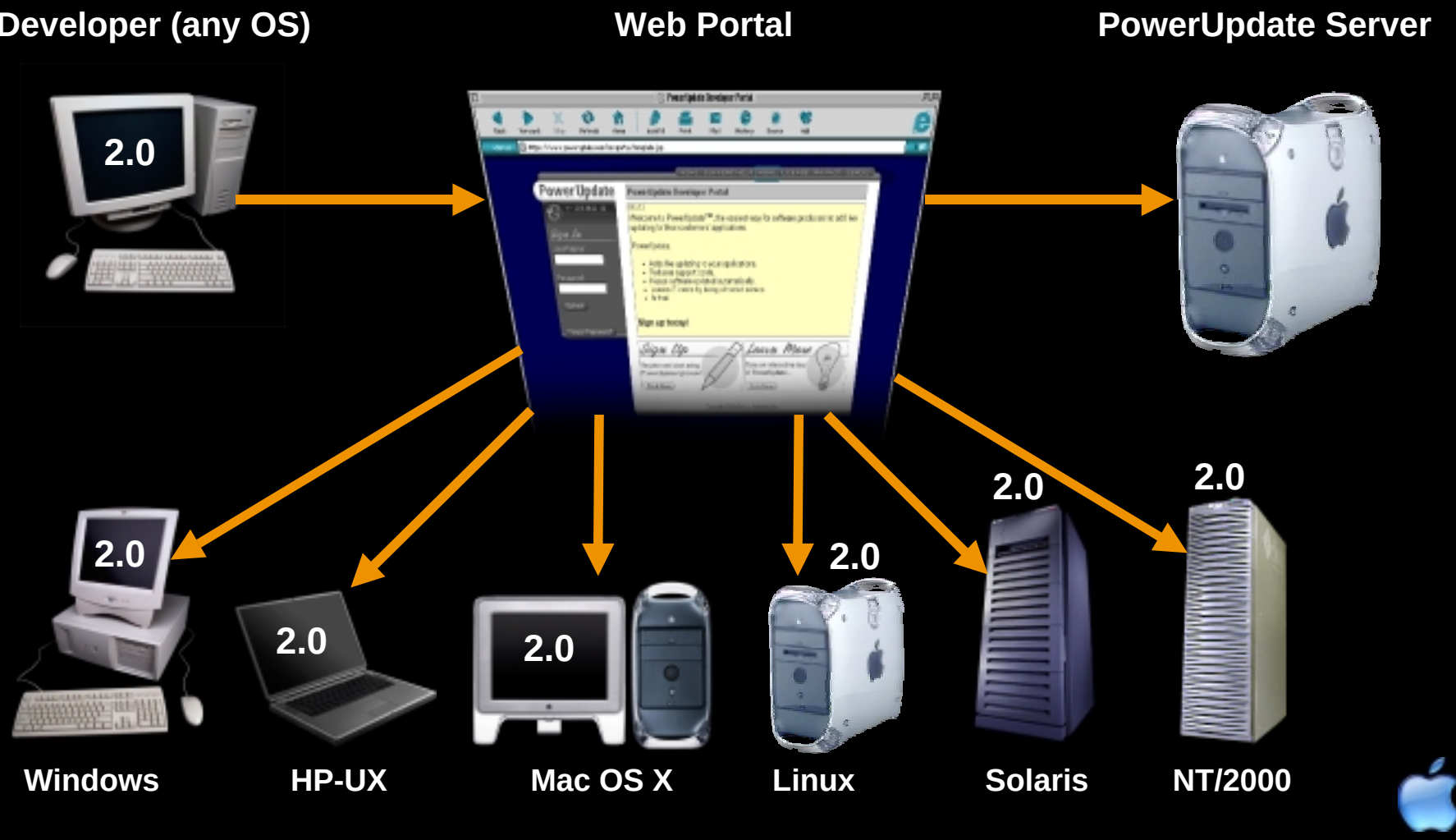
InstallAnywhere Architecture



PowerUpdate

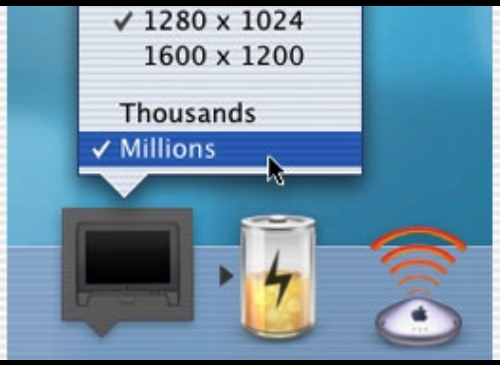
- Adds updating to your applications
- Fully compatible with nearly all installation and deployment solutions
- Supports Mac OS X, Solaris, Linux, Windows, AIX, HP-UX
- Intuitive, easy-to-use interface
- Controls where, when, and how updates are delivered

PowerUpdate Architecture



Demo

Zero G



CodeWarrior 7 Early Access, Java Tools

Serge Beauchamp, Software Developer
Ravindranath Kurupati, Software Developer
Metrowerks, a Motorola Company

Introduction

- Highlight the features of the Java tools on Mac OS X

Java in CW Pro7 EA

- Component editing now works on Mac OS X, with the component palette, object inspector, layout editor and component catalog
- Running/Debugging java applications and applets is supported
- Debugging performance is greatly improved over previous version

What You'll Learn

- Get familiar with the process of creating a Java application, using JavaBeans
- Building a fully functional application
- Java debugging on Mac OS X

CW Pro7 EA Demo

Metrowerks, a Motorola Company

Roadmap

504 Java Performance	Room C **Wed., 3:30pm**
505 JBuilder	Civic **Wed., 5:00pm**
506 Mac OS X Features for Java Apps	Room A2 **Thurs., 9:00am**
507 QuickTime for Java	Civic **Thurs., 2:00pm**

Roadmap

508 Java Graphics	Civic **Thurs., 3:30pm**
509 Java Security	Room J2 **Fri., 9:00am**
FF117 Java Feedback Forum	Room J1 **Fri., 10:30am**

Who to Contact

Alan Samuel
Java Technology Manager
Apple Worldwide Developer Relations
bluker1@apple.com

Q&A

http://developer.apple.com/events/urls.html

WWDC

Worldwide Developers Conference 2001